

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In the **PATENT APPLICATION** of:

Ozluturk et al.

**Application No.:** Not Yet Known

Our File: I-2-91.10US

**Filed:** Not Yet Known

Date: December 21, 2000

For: CODE DIVISION MULTIPLE ACCESS  
(CDMA) COMMUNICATION SYSTEM

**Group:** Not Yet Known

**Examiner:** Not Yet Known

**PRELIMINARY AMENDMENT**

Box PATENT APPLICATION  
Commissioner for Patents  
Washington, D.C. 20231

Sir:

Prior to the initial Office Action, Applicants respectfully request that the application  
be amended as follows:

**IN THE TITLE**

Please delete the title in its entirety and insert therefor --APPARATUS FOR INITIAL  
POWER CONTROL FOR SPREAD-SPECTRUM COMMUNICATIONS--.

**IN THE CLAIMS**

Please cancel claim 1 without prejudice.

Please add the following new claims:

--2. An apparatus for maintaining control of power in a spread-spectrum system, comprising:

a subscriber unit (SU), for sending to a base station (BS), using spread-spectrum modulation, a SU-spreading code on a status channel;

5 said BS for detecting the SU-spreading code from the SU, and for sending to the SU, using spread-spectrum modulation, in response to detecting the SU-spreading code, a BS-spreading code on a checkup channel; and

10 said SU, for detecting the BS-spreading code on the checkup channel, and in response to detecting BS-spreading code, decreasing transmit power of the SU; and said SU, in response to not detecting the BS-spreading code, for increasing transmit power of the SU.

3. The apparatus as set forth in claim 2, further including said SU for periodically sending to the BS, using spread-spectrum modulation, the SU-spreading code, having a symbol length, on the status channel.

4. The apparatus as set forth in claim 2, further including said BS for sending to the SU, using spread-spectrum modulation, in response to detecting the SU-spreading code, the BS-spreading code having a symbol length on the checkup channel.

5. The apparatus as set forth in claim 1, further including said SU for periodically sending to the BS, using spread-spectrum modulation, the SU-spreading code, having a symbol length, on the status channel, and further including said BS for sending to the SU, using spread-spectrum modulation, in response to detecting the SU-spreading code, the BS-spreading code having a symbol length on the checkup channel.

6. An apparatus for maintaining control of power in a spread-spectrum system, comprising:

subscriber means, for sending to base means using spread-spectrum modulation, a SU-spreading code on a status channel;

said base means for detecting the SU-spreading code from said subscriber means, and for sending to said subscriber means, using spread-spectrum modulation, in response to detecting the SU-spreading code, a BS-spreading code on a checkup channel; and

said subscriber means for detecting the BS-spreading code on the checkup channel, and in response to detecting BS-spreading code, for decreasing transmit power of the subscriber means; and said subscriber means, in response to not detecting the BS-spreading code, for increasing transmit power of the subscriber means.

7. The improvement as set forth in claim 6, further including said subscriber means for periodically sending to the base means, using spread-spectrum modulation, the SU-spreading code, having a symbol length, on the status channel.

8. The improvement as set forth in claim 6, further including said base means for sending to the subscriber means, using spread-spectrum modulation, in response to detecting the SU-spreading code, the BS-spreading code having a symbol length on the checkup channel.

9. The improvement as set forth in claim 6, further including said subscriber means for periodically sending to the base means, using spread-spectrum modulation, the SU-spreading code, having a symbol length, on the status channel, and further including said base means for sending to the subscriber means, using spread-spectrum modulation, in response to detecting the SU-spreading code, the BS-spreading code having a symbol length on the checkup channel.--

#### **IN THE ABSTRACT**

Please delete the current abstract, and substitute the following abstract therefor:

--A code-division-multiple-access (CDMA) system employing spread-spectrum modulation. The CDMA system has a base station (BS), and a plurality of subscriber units (SUs). The signals transmitted between the BS and SU use spread-spectrum modulation. The apparatus for maintaining control of power from an SU to a BS, comprises sending from the SU, using spread-spectrum modulation, a SU-spreading code, and detecting at the base station, the SU-spreading code from the SU. In response to detecting the SU-spreading code at the BS, a BS-spreading code is sent to the SU, using spread-spectrum modulation. At the

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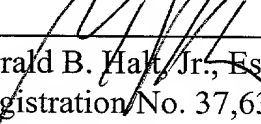
SU, if the BS-spreading code is detected, then transmit power of the SU is reduced. If the BS-spreading code is not detected at the SU, then transmit power of the SU is increased.--

### REMARKS

By this Preliminary Amendment, Applicants cancel claim 1 and add new claims 2-9; amend the title; and amend the abstract. Entry of this Amendment and prompt allowance of the pending claims is respectfully requested.

Respectfully submitted,

Ozluturk et al.

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